

Calendar

Tuesday, August 16

3:30 p.m. Director's Coffee Break -
2nd Flr X-Over

Note: There will be no Accelerator
Physics and Technology Seminar today

Wednesday, August 17

3:30 p.m. Director's Coffee Break -
2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West
Speaker: P. James, University of Toledo
Title: The Enigmatic Martian Polar Caps

Note: There will be no Fermilab ILC R&D
Meeting this week

Weather



Mostly Sunny **85°/61°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Tuesday, August 16

Tomato Bisque

Pesto Marinated Chicken Breast \$4.85

Burgundy Beef Tips \$3.75

Baked Fish Creole over Rice \$3.75

Grilled Chicken Caesar Wrap \$4.75

Supreme Pizza \$3.50

Rio Grande Taco Salad \$4.85

The Wilson Hall Cafe now accepts Visa,
Master Card, Discover and American
Express at Cash Register #1.

Live from Snowmass: GDE, ILC Physics, New Website



Fermilab Director Pier Oddone and ILC
Global Design Effort Director Barry Barish
speak with a Snowmass participant at
Monday morning's reception. (Click on image
for larger version.)

SNOWMASS, Colo.—The first day of the
Snowmass ILC workshop included
plenary sessions by co-chair Ed Berger of
Argonne National Laboratory, Theorist
Joe Lykken of Fermilab, GDE Director
Barry Barish, Head of Fermilab Public
Affairs Judy Jackson, and Peter Zerwas
of DESY.

Berger kicked off Monday's plenary
sessions by providing an overview of the
Snowmass Workshop and its role in the
progress toward the design and
development of the International Linear
Collider. Lykken continued the morning's
session with discussions about the
physics of the ILC. Lykken summarized
the HEPAP report, "Discovering the
Quantum Universe: The Role of Particle
Colliders."

After a much needed coffee break, Barish
resumed the morning's plenary session
with a GDE report. Barish outlined the
near term plan for the GDE, which

Director's Corner

International Particle Physics

Here in Snowmass I am once more
reminded and impressed at how
international our field is. Many of us have
trained scientists and engineers from
abroad who are now leaders in their own
institutes.

Many of us have
ourselves trained
abroad. Others have
exploited accelerators
in Europe, Japan and
China, while many of
our international
colleagues have
worked at



Pier Oddone

accelerators in the U.S. over long periods
of time. The Italian spokesperson of one
major detector at Fermilab recently
celebrated his 25th anniversary working
in the collaboration. Half the effort to build
and exploit BaBar at SLAC has been
carried out by Europeans. At a place like
Snowmass all these connections are
evident—the gathering of a big worldwide
family.

This internationalism in our field has
evolved naturally as different regions of
the world created facilities and made
them available to researchers across the
world. In the last few years it has acquired
a much sharper edge, one driven by
political and funding considerations. In
most scientific endeavors, no one asks
whether the same or similar facilities are
built in different regions of the world.
Multiple light sources, neutron sources,
genome sequencing facilities and

[Wilson Hall Cafe Menu](#)

Chez Leon

Wednesday, August 17

Lunch

Cajun Shrimp Salad w/Tomatoes &
Avocados

Pineapple Rum Cake

Thursday, August 18

Dinner

Tomatoes & Mozzarella Salad
Sea Bass w/Lemon Shallot Butter
Sautéed Corn, Peppers, & Bacon
Peach Cobbler w/Cream Chantilly

[Chez Leon Menu](#)

Call x4512 to make your reservation.

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includes writing a Baseline Configuration Document by the end of 2005 and a Reference Design Document by the end of 2006. He also summarized the major goals for the Snowmass workshop as developing the Linear Collider detector studies, advancing the Linear Collider physics studies and strengthening the broad participation of the ILC community.

"The plans for this Snowmass workshop preceded the creation of the GDE, and it remains organized as a general workshop on all aspects of the ILC," Barish said. "The GDE is taking advantage of this workshop to hold its first meeting within this broad community forum, and we appreciate the opportunity."

Barish also highlighted recent GDE communications activities by officially launching the [GDE ILC Website](#). "The idea is that the new site will be one stop shopping for the ILC community," he said. "The site will have an EDMS system, news updates, announcements and a calendar of events. We welcome your suggestions and look forward to hearing from you."

[Read more](#)

—Elizabeth Clements

Physics Advisory Committee Releases Annual Report

The Fermilab Physics Advisory Committee (PAC) met from June 18-23 in Aspen, Colorado, to review the Fermilab science program. The focus of this year's annual retreat included the Tevatron Collider, International Linear Collider Detector R&D at Fermilab, the neutrino and astroparticle physics programs, and Fermilab's plans for the future.

telescopes are all built by different regions. These facilities are either perceived to be important for the economic wellbeing of a country, or, as in the case of telescopes, support a wide variety of independent observers and allow countries to take part in the science.

By contrast, our accelerators and our discoveries may or may not have economic impacts, and if they do, they will have them only in the very long range. Also, we build facilities around major scientific themes and proceed to exploit them with complex detectors and large coherent collaborations. For these facilities, the funding and political imperatives now require a coordinated worldwide approach to optimize the use of limited resources. It is a unique challenge, easy to value in the case of a truly large facility like the International Linear Collider. The world coming together at Snowmass to develop the ILC is a prime example of how our community is adapting successfully to this challenge.

Photo of the Day



Lindsey Mieling (left center) enjoys lunch at Chez Leon with her family last Wednesday. Chez Leon offers lunch every Wednesday at 11:30 a.m. and dinner every Thursday at 7:00 p.m. For reservations, call x4512. (Click on image for larger version.)

Accelerator Update

The [charge](#) to the Committee and its [recommendations](#) are available via links from the [PAC webpage](#).

These webpages are maintained by the [Program Planning Office](#), which also maintains links to [recent major studies](#) relevant to Fermilab as well as internal [Director's Reviews](#), often used in preparation for formal DOE or NSF reviews.

The PAC is a major source of advice to Director Pier Oddone about the future direction of Fermilab's experiments and programs. Ever since Fermilab's early days, the PAC's recommendations and comments have offered insight into opportunities and issues important to members of the Laboratory community.

"The PAC is important for Fermilab's current program and long-range future because it reviews the broad range of issues facing the Lab," said PAC Secretary Jeff Appel. "There's real content in what the Committee members say and the way they say it."

The PAC is composed of senior scientists from universities and high-energy physics laboratories in the U.S. and abroad. "The theorists and experimentalists on the Committee offer both breadth of vision and depth of experience," said Appel. "The combined wisdom of the members is greater than the sum of its parts, coming as it does from detailed presentations and discussions by a diverse group of researchers."

In the News

August 12 - August 15

- During this 72 hour period Operations established two stores that combined with an existing store provided approximately 69 hours and 6 minutes of luminosity to the experiments
- Pbar's lithium lens tripped off

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

ILC Newsletter Launches

ILC NewsLine, the International Linear Collider Global Design Effort's newsletter, will release its inaugural issue this Thursday. Sign up for the newsletter at [LinearCollider.org](#).

TimeLine Theatre: *Copenhagen*

TimeLine Theatre Company presents the Tony Award-winning drama *Copenhagen* by Michael Frayn, directed by the award-winning Louis Contey. In 1941, German physicist Werner Heisenberg made a mysterious trip to Copenhagen for a meeting with his Danish mentor, Niels Bohr. What was said during their meeting is unknown, but their relationship—and the course of World War II—was changed forever. This play dares to imagine their meeting: the discussions of friendship, developing an atomic bomb and the ultimate moral responsibility of scientific discovery. Opens Saturday, August 27, 2005.

[More Information](#)

AMC and Renaissance Fair Tickets

Discounted AMC tickets are on sale for \$5.75 each. The tickets may not be used during the first two weeks run of a new movie. The expiration date of the current

From *Interactions News Wire*, August 15, 2005

CERN neutrino project on target

Scientists at CERN today announced the completion of the target assembly for the CERN neutrinos to Gran Sasso project, CNGS. On schedule for start-up in May 2006, CNGS will send a beam of neutrinos through the Earth to the Gran Sasso laboratory 730km away in Italy in a bid to unravel the mysteries of nature's most elusive particles.

[Read More](#)

tickets is March 2007. Renaissance Fair tickets are still on sale. The Fair is open on weekends until Labor Day weekend. Adult tickets are \$15.75 (reg. \$18.50) and child tickets (ages 5-12) are \$7.50 (reg. \$9.50). Temporarily, all tickets may be purchased in the Recreation Office on Tuesdays through Thursdays only, check or cash payment only.

[More Information](#)

[Upcoming Activities](#)